



IES INDOOR REPORT
PHOTOMETRIC FILENAME : PTR-22-L47-840-RA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN from BALLABS TEST NO. 19562.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 10-05-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 1-22" LED ARRAY 2x2'RECESSED LUMINAIRE
 [MORE] WHITE REFLECTOR w/CENTER FROSTED RIBBED ACRYLIC LENS
 [MORE] EVERLINE #D10CC55UNVTZ-C @ 76 SETPOINT
 [LUMCAT] PTR-22-L47-840-RA-DIM-UNV
 [LAMPCAT] M700C840D72N2A
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Architectural, Office, Direct
 [_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4849
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	38.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.93 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4556	4725	4879
55	3852	4244	4529
65	2945	3683	4095
75	2047	3266	4037
85	1166	2664	3330

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1853.205	1853.205	1853.205	1853.205	1853.205
5	1859.436	1848.220	1845.727	1839.496	1839.496
10	1834.511	1823.294	1822.048	1815.817	1814.571
15	1790.891	1778.429	1777.182	1774.690	1773.444
20	1728.578	1717.361	1716.115	1717.361	1717.361
25	1641.339	1630.122	1637.600	1642.585	1637.600
30	1534.160	1529.175	1536.652	1545.376	1539.145
35	1410.779	1409.533	1425.734	1431.965	1438.197
40	1268.704	1268.704	1296.122	1307.338	1317.308
45	1106.689	1106.689	1147.816	1173.987	1185.204
50	935.950	937.196	992.032	1026.927	1043.129
55	758.979	772.688	836.248	873.636	892.330
60	585.747	613.165	676.725	717.852	737.792
65	427.471	463.613	534.650	579.516	594.471
70	287.889	332.754	403.792	449.904	467.352
75	181.956	225.575	290.381	336.493	358.926
80	98.455	135.844	193.172	225.575	248.008
85	34.896	61.067	79.761	79.761	99.702
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	677.09	N.A.	14.00
0-30	1430.79	N.A.	29.50
0-40	2319.5	N.A.	47.80
0-60	3940.49	N.A.	81.30
0-80	4760.29	N.A.	98.20
0-90	4849.00	N.A.	100.00
10-90	4673.59	N.A.	96.40
20-40	1642.41	N.A.	33.90
20-50	2523.65	N.A.	52.00
40-70	2141.41	N.A.	44.20
60-80	819.80	N.A.	16.90
70-80	299.38	N.A.	6.20
80-90	88.70	N.A.	1.80
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4849.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	175.41
10-20	501.69
20-30	753.70
30-40	888.71
40-50	881.25
50-60	739.75
60-70	520.42
70-80	299.38
80-90	88.70
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	100	91	85	79	97	90	83	78	86	81	76	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	63	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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UGR TABLE - CORRECTED

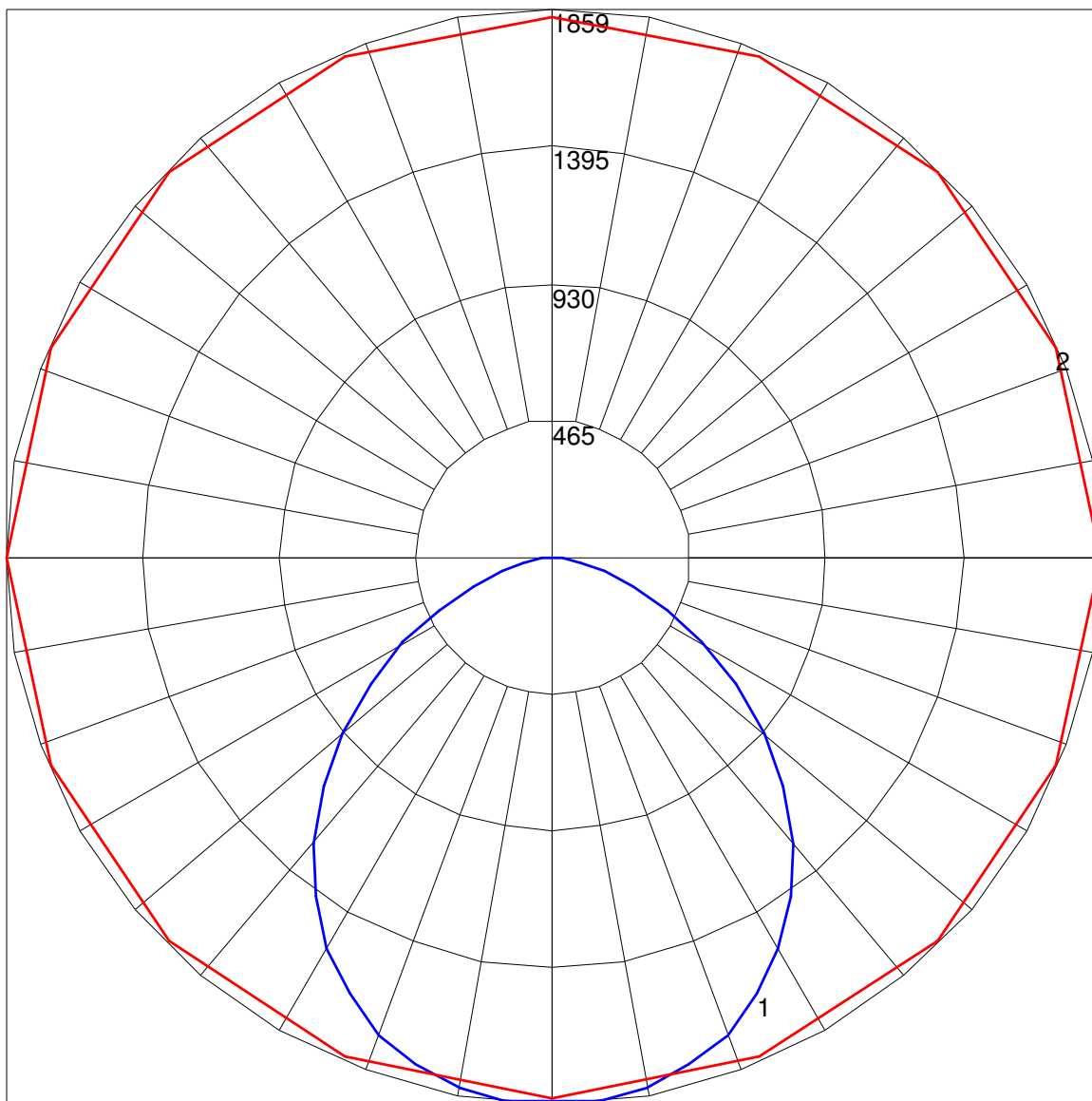
Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	16.3	17.9	16.6	18.2	18.5	17.3	18.9	17.7	19.2	19.5
	3H	17.6	19.0	17.9	19.3	19.7	19.1	20.6	19.5	20.9	21.3
	4H	18.0	19.3	18.4	19.7	20.1	19.9	21.3	20.3	21.6	22.0
	6H	18.2	19.5	18.7	19.9	20.3	20.6	21.9	21.0	22.2	22.6
	8H	18.3	19.5	18.7	19.9	20.3	20.8	22.0	21.3	22.4	22.8
	12H	18.3	19.5	18.8	19.9	20.3	21.0	22.1	21.4	22.5	23.0
4H	2H	17.0	18.3	17.4	18.7	19.1	17.8	19.2	18.2	19.5	19.9
	3H	18.5	19.6	18.9	20.0	20.4	19.9	21.0	20.3	21.4	21.8
	4H	19.1	20.1	19.5	20.5	20.9	20.8	21.8	21.2	22.2	22.7
	6H	19.4	20.3	19.9	20.8	21.2	21.7	22.6	22.1	23.0	23.5
	8H	19.5	20.4	20.0	20.8	21.3	22.0	22.8	22.4	23.2	23.7
	12H	19.6	20.4	20.1	20.8	21.3	22.2	22.9	22.6	23.4	23.9
8H	4H	19.5	20.3	20.0	20.8	21.3	21.1	21.9	21.5	22.3	22.8
	6H	20.0	20.7	20.5	21.2	21.7	22.0	22.7	22.5	23.2	23.7
	8H	20.2	20.8	20.7	21.4	21.8	22.4	23.1	23.0	23.6	24.1
	12H	20.3	20.9	20.8	21.4	21.9	22.7	23.3	23.2	23.7	24.3
12H	4H	19.6	20.3	20.1	20.8	21.3	21.1	21.8	21.5	22.3	22.8
	6H	20.2	20.8	20.7	21.3	21.8	22.1	22.7	22.6	23.2	23.7
	8H	20.4	21.0	20.9	21.5	22.0	22.5	23.1	23.0	23.6	24.1

Maximum UGR = 24.3

POLAR GRAPH



Maximum Candela = 1859.436 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)